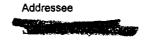
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R. A. Bushaw 373-4314



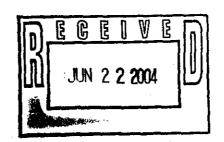
Correspondence No. CH2M-0401824 June 17, 2004

Subject:

FINAL REPORT FOR THE SOIL SAMPLES FROM 216-Z-9 TRENCH-COLLECTED DURING MARCH AND APRIL OF FISCAL YEAR 2004 SDG 222520040100

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June 17, 2004

CH2M-0401824

Mr. S. J. Trent, Manager Environmental Information Systems Fluor Hanford, Inc. Post Office Box 1000 Richland, Washington 99352-0450

Dear Mr. Trent:

FINAL REPORT FOR THE SOIL SAMPLES FROM 216-Z-9 TRENCH-COLLECTED DURING MARCH AND APRIL OF FISCAL YEAR 2004

References:

- 1. HNF-SD-CP-QAPP-016, "222-S Laboratory Quality Assurance Plan," Revision 8, dated January 29, 2004.
- 2. 216-Z-9 Trench Characterization Borehole Sampling and Analysis Concurrence for Analytical Requirements, dated October 2, 2003.
- 3. Interoffice Memorandum, H. L. Anastos, FH, to Distribution, "Semi-Volatile Organic Compound Analysis," FH-0300526, dated February 3, 2003.
- 4. Interoffice Memorandum, H. L. Anastos, FH, to Distribution, "Volatile Organic Compound Analysis," FH-0300583, dated February 3, 2003.
- 5. SW-846, "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," Revision 3, U.S. Environmental Protection Agency, Washington, D.C., dated December 1996.

This letter and four attachments represent the final analytical data report for the soil samples from the 216-Z-9 characterization borehole that were received at the 222-S Laboratory between March 24 and April 21, 2004. The samples were analyzed in accordance with Reference 1 through Reference 5.

Should you have questions regarding this matter, please contact R. A. Bushaw at 373-4314.

Very truly yours,

Ruth A. Bushaw, Project Coordinator Analytical Project Management

Ruch a Bushaw

dtb

Atttachments (4)

CH2M-0401824

Attachment 1

NARRATIVE

Consisting of 14 pages, including coversheet

#### 222-S LABORATORY

# FINAL REPORT FOR THE SOIL SAMPLES FROM 216-Z-9 TRENCH-COLLECTED DURING MARCH AND APRIL OF FY 2004

#### 1.0 INTRODUCTION

Seven soil samples from the 216-Z-9 characterization borehole were received at the 222-S Laboratory between March 24 and April 21, 2004. The samples were analyzed in accordance with the 222-S Laboratory Quality Assurance Plan (Reference 1), 216-Z-9 Trench Characterization Borehole Sampling and Analysis Concurrence for Analytical Requirements (analytical instructions) (Reference 2), Semi-Volatile Organic Compound Analysis (Reference 3), and Volatile Organic Compound Analysis (Reference 4), referenced in the cover letter.

A Data Summary Report is included as Attachment 2. The correlation between the customer sample identification number and laboratory identification numbers is presented in the Sample Breakdown Diagrams included as Attachment 3. Copies of the Chain of Custody and Generator Knowledge Information forms are included as Attachment 4.

#### 2.0 SAMPLE APPEARANCE

For easier tracking of results, the samples were logged into the laboratory database as four different sample delivery groups (SDG), as noted in the following.

<u>SDG 222S20040061</u>—This SDG consists of one customer sample numbered B17N61. This sample was collected on March 23, 2004. It was delivered to the laboratory on March 24, 2004, in three 40-mL amber bottles with septum lids. Analysis for low-level volatile organic compounds (VOC) was the only request for this sample. The sample was described as dark brown, medium coarse sand.

SDG 222S20040073—This SDG consists of three customer samples numbered B18XW3, B18XR8, and B190T8-A. Samples B18XW3 and B18XR8 were collected on April 8, 2004. Sample B18XW3 was delivered to the laboratory on April 14, 2004, in three 40-mL amber bottles with septum lids for low-level VOC analysis only. For sample B18XR8, three 5-g En Core® samplers were received on April 8, 2004, for high-level VOC analysis. On April 16, 2004, two 60-mL bottles and one 120-mL bottle were received as B18XR8 for semivolatile organic compound analysis (SVOA), polychlorinated biphenyl (PCB) analysis and inorganic and radionuclide analyses listed in the analytical instruction. The samples were described as dark brown, medium coarse sand.

Sample B190T9-A was collected and delivered to the laboratory on April 15, 2004. As received, it was labeled as B190T8 for a radscreen analysis. However, after receipt, the customer point of contact requested an additional isotopic plutonium analysis and requested that the results be reported using the sample number B190T8-A. The sample was described as dark brown, medium coarse sand.

SDG 222S20040100—This SDG consists of two customer samples numbered B17N64 and B17N68. These samples were collected and delivered to the laboratory on April 21, 2004. Sample B17N64 was received in five 40-mL amber bottles with septum lids for low-level VOC analysis only. Sample B17N68 was received in three 5-g En Core® samplers for high-level VOC analysis only. Sample B17N68 was described like the previous samples: dark brown, medium coarse sand.

For sample B17N64, three of the five bottles contained dark brown, medium coarse sand and the remaining two bottles contained lighter colored, beige, medium coarse sand. The initial low-level VOC analysis was performed using the first three of the bottles in numerical order and was reported as sample number S04M000115. The bottle chosen for the sample analysis contained the beige sand, while the bottles chosen for the matrix spike (MS) and matrix spike duplicate (MSD) analyses both contained the darker brown sand. The customer point of contact was informed of the discrepancy and an additional VOC analysis was requested on the remaining vial that contained darker sand. No additional MS or MSD analyses were performed. The sample results for the additional analysis are reported as sample B17N64-A (S04M000124), as the customer requested.

SDG 222S20040101—This SDG consists of one customer sample numbered B191Y4. The sample was collected and delivered to the laboratory on April 21, 2004. Five bottles were received for analysis; one 60-mL bottle was received for SVOA, one 500-mL bottle for radionuclide analysis, and three 40-mL amber glass bottles with septum lids for VOC analysis. On April 28, 2004, the customer point of contact canceled the request for SVOA and radionuclide analyses, and the 60-mL and 500-mL bottles were returned to the customer on April 29, 2004.

The 40-mL bottles were filled to the top with soil, leaving no head-space. No preservative was added to the sample bottles in the field. With the sample received in this configuration, it was unclear whether low-level or high-level VOC analysis was requested, so the chemist preserved portions of the sample for both analyses. The customer point of contact was informed of the decision made by the responsible chemist concerning the VOC, and requested the laboratory to report the high-level VOC analysis using sample number B191Y4-A.

#### 3.0 SAMPLE HANDLING

Except for VOC analyses, the samples were stirred with a spatula prior to removing aliquots for analysis. With this type of sample, this method is typically not sufficient to achieve homogenization. However, the relative percent difference (RPD) between sample and duplicate results for most analytes meet the acceptance criteria listed in the analytical instructions, indicating good precision was obtained.

As noted in Section 2.0 for B191Y4, the sample was provided in three amber glass bottles with no preservative. Because the bottles had to be opened in a hood to obtain aliquots for analysis, the sample integrity was compromised and the results may be biased low.

#### 4.0 HOLDING TIMES

The analytical instructions requested that the laboratory make every effort to meet the SW-846 (Reference 5 in the cover letter) holding times for VOA. Additionally, an e-mail message was received from the customer point of contact on April 19, 2004, requesting the laboratory to make every effort to meet all analytical holding times.

The holding times were met for all analyses except for pH, sulfide, and mercury (Hg) for sample B18XR8. For pH (24 hour) and sulfide (7 day), the holding times were not met because of an 8-day delay between the field sampling and delivery of the sample. For the Hg analysis, the 28-day holding time was not met because of a combination of the 8-day delay between sampling and delivery, and issues with scheduling resources and preparation of the fume hoods for the laboratory outage.

#### 5.0 ANALYTICAL RESULTS

The Data Summary Report, included as Attachment 2, presents the analytical results for the requested analytes. In this table, solid samples that were prepared by water digest are indicated with a "W" in the aliquot class (A#) column, and an "S" indicates a distillation preparation was used. An "A" indicates an acid digest of a solid, and an "E" indicates that the stronger acid soil leach procedure was used to prepare the sample prior to analysis. If there is no letter identifier in this column, this indicates that the analysis was performed on a direct subsample with no separate preparation, or with sample preparation that was included as part of the analytical procedure steps.

Note that for most analytes, the results reported for the blank in the Data Summary Report are in the same units as indicated for the sample. However, for the ion chromatography (IC), inductively coupled plasma (ICP) spectroscopy, uranium by phosphorescence (total uranium), and ICP-mass spectrometry (ICP-MS) analyses, the results reported for the blank are actually  $\mu g/mL$ .

#### 5.1 VOLATILE ORGANIC COMPOUND ANALYSIS ISSUES

Sample B18XW3 (S04M000096)—The concentration reported for carbon tetrachloride (CCl<sub>4</sub>) exceeded the calibration range for the requested low-level VOC analysis. Therefore, the result of 260 μg/kg should be considered an estimate. Since the entire sample was used in process during the first analysis, no reanalysis was possible. Sample B18XR8 (S04M000095) was collected at the same time on the same day. This sample was submitted to the laboratory for high-level VOC analysis. No CCl<sub>4</sub> was detected in this sample at a detection limit of 240 μg/kg. For the high-level VOC analysis, some of the CCl<sub>4</sub> might have been lost due to the required process of opening the En Core® sampler to the atmosphere to transfer the sample to a vial for preserving.

Sample B17N64 (S04M000115)—The concentration reported for acetone exceeded the calibration range for the requested low-level VOC analysis. Therefore, the result of 170 μg/kg should be considered an estimate. Since the entire sample was used in process during the first analysis, no reanalysis was possible. Sample B17N68 (S04M000116) was collected at the same time on the same day. This sample was submitted to the laboratory for high-level VOC analysis. Acetone was detected at 660 μg/kg, but the result should be considered an estimate because it is less than the estimated quantitation limit (EQL), which is 10 times the reported detection limit. For the high-level VOC analysis, some of acetone might have been lost due to the required process of opening the En Core® sampler to the atmosphere to transfer the sample to a vial for preserving.

Sample B191Y4 (S04M000118)—The concentration reported for CCl<sub>4</sub> exceeded the calibration range for the aliquot that was preserved for low-level VOC analysis. Therefore, the result of 290  $\mu$ g/kg should be considered an estimate. Since opening the sample vial greatly compromises low-level VOC analysis, no low-level reanalysis was requested. Sample B191Y4-A (S04M000123) was an aliquot removed from the same sample vial and preserved for high-level VOC analysis. For this analysis, CCl<sub>4</sub> was not detected at a detection limit of 130  $\mu$ g/kg. Again, opening the vial may have compromised the analysis due to loss of analyte to the atmosphere. No reanalysis was requested.

#### 6.0 QUALITY CONTROL RESULTS

### 6.1 LABORATORY CONTROL SAMPLES

For nonradionuclide analyses, the accuracy of the analysis was evaluated from the recovery of both a laboratory control sample (LCS) and an MS. The requested accuracy was LCS or MS within 70-130% recovery. For radionuclides, the accuracy of the gross (or total) alpha, gross (or total) beta, and ICP-MS analytes was evaluated from the LCS and MS recoveries. For all other radionuclide analyses, the accuracy was evaluated only from the LCS recovery. The requested radionuclide accuracy was LCS or MS within 80-120% recovery.

For the VOC analysis, a ketone mix containing acetone, 2-butanone, and 4-methyl-2-pentanone were part of the standard mix used for LCS analysis for sample B16N61 in addition to the requested set of compounds indicated in the letters from H. L. Anastos (References 3 and 4 in the cover letter). These compounds are part of the quality control (QC) protocol associated with an unrelated project. Although the LCS and MS recoveries for ketones were not required to be reported, they are included in the Data Summary Report (Attachment 2) for sample B17N61 only.

All LCS recoveries were acceptable in accordance with the analytical instructions and the 222-S Laboratory Quality Assurance Plan (QAPP-016) (Reference 1 in the cover letter).

#### 6.2 METHOD AND PREPARATION BLANKS

For most analyses, no analytes were detected in the method or preparation blank. However, the following analytes were detected in the blanks prepared and analyzed with the samples.

- a. Chromium (Cr) and lead (Pb) were detected in the acid digest blank analyzed with sample B18XR8. The level of Cr measured in the blank was about 60% of the concentration measured in the sample. The level Pb measured in the blank was about 10% of that measured in the sample. The sample was reprepared and reanalyzed and the reanalysis results confirmed that the original sample results were not affected by the contamination detected in the blank. The reanalysis was not reported because a larger sample size was used, which may have caused incomplete digestion of some analytes. This issue did not affect the comparison of the Cr and Pb results between the two digests.
- b. Uranium (U) was detected in the blank that was prepared and analyzed with sample B18XR8 for total U. The level of U detected in the blank was about 9% of that detected in the sample. The reported results are considered estimates because they are less than 10 times the reported detection limit. They should also be considered biased high due to contamination. If the results are corrected for the high bias, they are confirmed by the sum of the U isotopes reported from the ICP-MS analysis. The sample was not reanalyzed because they were in agreement with the ICP-MS and because they would still be reported as estimates on a reanalysis due to the large dilution required to reduce matrix interference.
- c. Thorium-232, <sup>235</sup>U, and <sup>238</sup>U were detected in the blank prepared and analyzed with sample B18XR8 by ICP-MS. For all three analytes, the level detected in the blank was considered insignificant because it was less than 5% of the concentration reported for the sample, as allowed by QAPP-016.
- d. Beta activity was detected in the blank prepared and analyzed with sample B18XR8 for total beta. However, the contamination was considered insignificant because the blank activity was less than 5% of the activity in the sample, as allowed by QAPP-016.
- e. Nitrite (NO<sub>2</sub>) was detected in the water digest preparation blank analyzed with sample B18XR8. However, the contamination was considered insignificant because no NO<sub>2</sub> was detected in the sample.
- f. Acetone was detected in the blanks analyzed with samples B18XR8 (S04M000095) (high-level VOC), B18XW3 (S04M000096) (low-level VOC), and B17N64-A (S04M000124) (low-level VOC). For sample B18XR8, no acetone was detected in the sample, so the blank contamination was considered insignificant. For sample B17N64-A, the blank result was less than the EQL and was considered insignificant. But for sample B18XW3, the acetone concentration reported for the blank was greater than the EQL and was about 20% of the sample concentration. For this sample, since the entire sample was used in process during the first analysis, no reanalysis was possible. Therefore, the acetone result should be considered biased high for B18XW3.
- g. Low levels of 2-butanone were detected in the blanks analyzed with samples B18XW3 (S04M000096) (low-level VOC) and B17N64-A (S04M000124) (low-level VOC). In both instances, the blank result was less than the EQL and was considered insignificant.

#### 6.3 DUPLICATE ANALYSES

One duplicate analysis was performed for each analyte for each SDG. The requested precision for analysis was an RPD  $\pm 20\%$  for radionuclides and  $\pm 30\%$  for all other methods. For VOC, SVOA, and PCB analyzed, the analysis precision was determined by calculating the RPD between an MS and MSD. These are discussed in Section 6.4.

In addition to the RPDs requested in the analytical instructions, QAPP-016 states that the RPD criterion is not applicable when the sample results are less than 10 times the reported detection limit for nonradionuclide analyses or if the counting uncertainty is greater than 15% for radionuclide analyses. Although total U and Cl had RPDs greater than 30% and <sup>233</sup>U and <sup>234</sup>U had RPDs greater than 20%, the sample results were all less than 10 times the reported detection limits. For <sup>90</sup>Sr, the RPD was also greater than 20%, but the counting uncertainty was greater than 15%. All other analyte results met RPD criteria stated in the analytical instruction.

#### 6.4 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE

Where applicable, one MS sample was analyzed for each analyte for each SDG. For the VOC analysis, the samples were batched based on when they were received. High-level and low-level samples were analyzed in separate batches. One MS and one MSD was analyzed for each analytical batch. The SDGs were batched as indicated below.

a. Batch 1 Low-level batch:

SDG 222S20040061 only - B17N61 (S04M000022) was the only sample in this batch; MS and MSD analyzed with this sample.

b. Batch 2 High-level batch:

SDG 222S20040073 only – B18XR8 (S04M000095) was the only high-level sample in this batch; MS and MSD analyzed with this sample.

c. Batch 3 Low-level batch:

SDG 222S20040073 only – B18XW3 (S04M000096) was the only low-level sample in this batch; MS and MSD analyzed with this sample.

d. Batch 4 Low-level batch:

SDG 222S20040100 – B17N64 (S04M000115); MS and MSD analyzed with this sample.
SDG 222S20040101 – B191Y4 (S04M000118); no additional QC run with this sample.

e. Batch 5 Low-level batch:

SDG 222S20040100 – B17N64-A (S04M000124); this was an additional analysis request for this sample based on variation of colors of the soil in the five vials received. There were insufficient vials available to provide additional QC for this sample.

#### f. Batch 6

High-level batch:

SDG 222S20040100 – B17N68 (S04M000116); MS and MSD analyzed with this sample.

SDG222S20040101 -B191Y4-A (S04M000123); no additional QC run with this sample.

For nonradionuclide analyses, the accuracy of the analysis was evaluated from both the LCS and MS recoveries. The requested accuracy was LCS or MS within 70-130% recovery. An MS analysis was not applicable for the pH analysis. For the SVOA and VOC analyses, the analytical instructions requested that the laboratory report MS recoveries only for the representative set of compounds indicated in the letters from H. L. Anastos (References 3 and 4 in the cover letter). For PCB analysis, only Aroclor-1254 is included in the MS because it is the aroclor most commonly detected in samples on the Hanford site. All analytes met the accuracy criterion stated in the analytical instructions.

In addition to the MS analysis, an MSD was analyzed with the SVOA, VOC, and PCB analyses to evaluate method precision. The spike RPD between the MS and MSD met the precision criterion for all analyses.

For the VOC analysis, a ketone mix containing acetone, 2-butanone, and 4-methyl-2-pentanone were part of the standard mix used for MS analysis for sample B17N61 in addition to those compounds listed in the Anastos letters. These compounds are part of the QC protocol associated with an unrelated project. Although the ketones were not required to be reported, they are included in the Data Summary Report for B17N61 only, but they are not included in the MS/MSD evaluation.

For radionuclides, the accuracy of the gross (or total) alpha, gross (or total) beta, and ICP-MS analytes was evaluated from the LCS and MS recoveries. For all other radionuclide analyses, the accuracy was evaluated only from the LCS, which is discussed in Section 6.1. The requested radionuclide accuracy was LCS or MS within 80-120% recovery. All analytes met the accuracy criterion stated in the analytical instructions.

The Data Summary Report included as Attachment 2 does not report the recoveries for the MSD analysis or the RPD for the MS/MSD analysis. This information is provided in Table 1 through Table 5 for VOA, Table 6 for SVOA, and Table 7 for PCB analysis.

Table 1. MS/MSD Recoveries and RPD for VOA for B17N61.

Emplomi	NE (NO	MEDITION	(BAD) (%)
Benzene	88	88	0
Chlorobenzene	90	88	2
1,1-Dichloroethene	70	75	7
Toluene	87	86	1
Trichloroethene	88	88	0

Table 2. MS/MSD Recoveries and RPD for VOA for B18XW3.

Communic	E.Medeor	A TAINEU (Po):	TREEDA(%)
Benzene	101	102	1
Chlorobenzene	99	101	2
1,1-Dichloroethene	94	93	1
Toluene	95	98	3
Trichloroethene	102	102	0

Table 3. MS/MSD Recoveries and RPD for VOA for B18XR8.

(Configuration)	NE CONT	WHO IS	aranda(%)
Benzene	91	91	0
Chlorobenzene	9,1	91	0
1,1-Dichloroethene	92	106	14
Toluene	,89	89	0
Trichloroethene	89	88	1

Table 4. MS/MSD Recoveries and RPD for VOA for B17N64.

Compound	18 (196)	MOD COL	(RPD) (200)
Benzene	102	103	1
Chlorobenzene	100	100	0
1,1-Dichloroethene	94	92	2
Toluene	94	94	0
Trichloroethene	100	102	2

Table 5. MS/MSD Recoveries and RPD for VOA for B17N68.

Compani	MERCO	Mai (M)	RPD (%)
Benzene	99	109	10
Chlorobenzene	109	114	4
1,1-Dichloroethene	85	84	1
Toluene	106	117	10
Trichloroethene	91	96	5

Table 6. MS/MSD Recoveries and RPD for SVOA for B18XR8.

Componi	PARKY(Z/n); -	(V/Sir(V/V)	RODDY (76)
Phenol	87	92	6
2-Chlorophenol	81	84	4
1,4-Dichlorobenzene	75	83	10
N-Nitroso-di-n-propylamine	82	88	7
1,2,4-Trichlorobenzene	83	90	8
4-Chloro-3-methylphenol	85	88	3
Acenaphthene	87	92	6
4-Nitrophenol	86	89	3
2,4-Dinitrotoluene	80	85	6
Pentachlorophenol	72	76	5
Pyrene	79	86	8

Table 7. MS/MSD Recoveries and RPD for PCB for B18XR8.

் வருவறார்!	Mrs (Me)	MADE WAY	(RAD)(%),
Aroclor 1254	86	87	1

#### 6.5 SURROGATE RECOVERIES

Surrogate standards are added to all field and QC samples for VOC, SVOA, and PCB analyses. The surrogate is added to monitor total method recovery through preparation, sample matrix cleanup, and analysis. All surrogate standard recoveries met the requirements in QAPP-016.

#### 6.6 OPPORTUNISTIC ANALYTES

The VOC analysis contains results for compounds that were calibrated for in the method but were not requested in the analytical instructions. These results are considered "opportunistic" rather than tentatively identified compounds (TIC) because the results are more accurate. The calculated results, chemical abstract system (CAS) numbers, and method detection limits (MDL) for these compounds are presented in Table 8. The MDLs are included in parentheses after the sample results. Results that should be considered estimated because the concentration was not greater than 10 times the MDL are indicated with a (J) and those that are estimated because the concentration exceeded the calibration range are indicated with an (E).

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Table 8. Opportunistic Compound Results for VOC.

មកម្មាញក្	CAM	Gmr	GEANN.	E WALLS	THE PART	THE AVEL A	BUNGE	TO DIAY
n-Butanol	71-36-3	μg/kg	260 (25)	1500 (20) (E)	ND	301 (19)	ND	947 (22) (E)
Tetrahydrofuran	109-99-9	μg/kg	9.6 (2.2) (J)	112 (1.8)	93 (2.4)	36 (1.7)	ND	51 (2.0)
2-Hexanone	591-78-6	μg/kg	ND	1.3 (0.6) (J)	1.3 (0.8) (3)	7.6 (0.6)	ND	1.5 (0.6) (J)
2-Pentanone	107-87-9	μg/kg	ND	ND	6.6 (2.4) (J)	6.0 (1.7) (J)	ND	ND
Carbon disulfide	75-15-0	μg/kg	ND	ND	ND	ND	ND	11 (0.9)
Styrene	100-42-5	μg/kg	ND	ND	ND	ND	ND	2.9 (0.7) (J)
1,2-Dibromo-3- chloropropane	96-12-8	μg/kg	ND	ND `	.,ND	ND	ND	588 (75) (J)

ND-Not detected.

For sample B17N61 (S04M000022), three opportunistic VOC compounds were reported in the preliminary report as detected in the sample. However, further examination of the data determined that methyl acetate was detected in most of the blanks, LCS, and samples. Therefore, that compound was considered to be contamination from an unknown source and not related to the sample matrix. The result is not included in this section of the report.

#### 6.7 TENTATIVELY IDENTIFIED COMPOUNDS

The analytical instructions (Reference 2) list five compounds for VOC analysis that the laboratory does not routinely report, as indicated in the letter from H. L. Anastos (Reference 4). The laboratory was requested to perform a TIC search for these compounds. These compounds were not detected in any of the samples.

Several other TICs were identified in the samples. The TICs are identified by the instrument library search based only on masses in the spectra and are not based on retention times or verified with independent check standards. These compounds could be misidentified because of matrix effects. The concentrations are estimated based only on the nearest internal standard and a presumed response factor of 1. The TIC results are presented in Table 9.

For sample B17N61 (S04M000022), the preliminary report indicated that three TICs were identified during the VOC analysis. However, further examination of the data determined that cyclotetrasiloxane, octamethyl was detected in most of the blanks, LCS, and samples. Therefore, that compound was considered to be contamination from an unknown source and not related to the sample matrix. The result is not included in this section of the report.

#### 6.8 TARGET QUANTITATION LIMITS

The analytical instructions listed target quantitation limits (TQL) for each requested analyte except mercury. The Data Summary Report provides MDLs. These must be converted to EQL to compare these to the requested TQLs. For all of the inorganic methods, the EQL is calculated as 10 times the reported MDL. The radionuclide analyses use several different conversion factors for determining the EQL. For gamma energy analysis (GEA) and <sup>237</sup>Np, the EQL is five times the reported MDL. For total alpha, total beta and <sup>90</sup>Sr, the EQL is three times the reported MDL. For the determination of isotopic plutonium and americium by alpha energy analysis, the MDL is the EQL.

The laboratory was unable to meet all of the requested TQLs due to necessary dilutions of the samples. These dilutions ensured analyte concentrations did not exceed calibration ranges and avoided contamination and carry-over problems. For radionuclide analysis, sample sizes were chosen based on allowable activity in a sample that is allowed in the counting room, or level of activity compared to the standard amount of tracer added, or a sample size limit in the procedure. The laboratory used the largest feasible sample sizes to obtain the lowest detection limits possible for these analyses.

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Table 9. Tentatively Identified Compounds from VOC Analysis.

Table 7. Tentatively Identified Compounds from VCC Analysis.										
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2-Propanol, 2-methyl- (tert- butanol)	75-65-0	μg/kg	4.3	ND	ND	ND	ND			
1-Hexanol, 2-ethyl	104-76-7	μg/kg	8.5	ND	ND	ND	ND			
Butanal	123-72-8	μg/kg	ND	18	ND	ND	ND			
Methane, nitro	75-52-5	μg/kg	ND	5.5	ND	ND	ND			
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	719-22-2	μg/kg	ND	4.5	6.2	ND	ND			
1-Hexanol, 2-ethyl	104-76-7	μg/kg	ND	24	ND	12	ND			
Ethane, hexachloro	67-72-1	μg/kg	ND	5.2	ND	15	ND			
Isopropyl alcohol	67-63-0	μg/kg	ND	ND	ND	ND	10			
Pentanal	110-62-3	μg/kg	ND	ND	ND	8.9	ND			
Hexanal	66-25-1	μg/kg	ND	ND	ND	13	ND			
Ethene, tribromo	598-16-3	μg/kg	ND	ND	ND	5.7	ND			
Benzoic acid, 2- [(trimethylsilyl)oxy]-, trimethylsilyl ester	3789-85-3	μg/kg	ND	ND	ND	ND	6.3			

ND-Not detected.

#### 7.0 ANALYTICAL PROCEDURES

Table 10 presents the 222-S Laboratory analytical procedures used to generate the reported results.

Table 10. Analytical Procedures.

rable 10. Analytical Procedures.								
Anglesk	Bragging.	Air Ivei a Procedine						
	Throughneyouthy Gr							
pН	Direct	LA-212-105 Rev. D-0						
Hg	Direct	LA-325-106 Rev. C-0						
CN	Direct	LA-695-102 Rev. I-2						
NH4	Distillation	LA-533-101 Rev. K-0						
IC	Water digest	LA-533-107 Rev. C-2						
Sulfide	Direct ,	LA-361-101 Rev. A-2						
Total U	Acid digest	LA-925-009 Rev. D-5						
ICP	Acid digest	LA-505-161 Rev. D-1						
ICP-MS	Acid digest	LA-506-102 Rev. A-0						
	Reciporation southers							
Total alpha/total beta	Environmental digest	LA-508-101 Rev. I-1						
GEA	Environmental digest	LA-548-121 Rev. F-5						
<sup>90</sup> Sr	Environmental digest	LA-220-103 Rev. F-10						
<sup>237</sup> Np	Environmental digest	LA-933-141 Rev. H-7						
<sup>238</sup> Pu, <sup>239/240</sup> Pu	Environmental digest	LA-953-104 Rev. D-1						
<sup>241</sup> Am	Environmental digest	LA-953-104 Rev. D-1						
(Tiggini) como des								
VOA	Direct	LA-523-118 Rev. A-2						
SVOA	Organic extraction	LA-523-135 Rev. A-2						
PCB	Organic extraction	LA-523-140 Rev. B-0						

#### Notes:

Acid digest procedure: LA-505-163 Rev. D-2 Water digest procedure: LA-504-101 Rev. I-0

Distillation procedure: LA-544-112 Rev. A-1

Environmental acid digest procedure: LA-544-101 Rev. C-5 Organic extraction procedure: LA-523-138 Rev. D-0

### CH2M-0401824

Attachment 2

DATA SUMMARY REPORT

Consisting of 12 pages, including coversheet

Attachment 2 Z9 TRENCK4

CORE NUMBER: 222520040061

SEGMENT #: B17N61

RTION: VOA												
Sample# R	A#	Analyte	Unit	Standard %	Blank	<u>Resul</u> t	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S04M000022	Τ	Vinyl Chloride	ug/Kg	n/a	<1.5	<1.7	n/a	n/a	n/a	n/a	2	n/a
S04M000022		Chloromethane	ug/Kg	n/a	<1.6	<1.8	n/a	n/a	n/a	n/a	2	n/a
S04M000022		Methylene Chloride	ug/Kg	n/a	<1.3	<1.4	n/a	n/a	n/a		1	n/a
S04M000022	<u> </u>	Acetone	ug/Kg	1.1e+02	<0.92	26	n/a	n/a	n/a	1.1e+02	1	n/a
S04M000022		1,1-Dichloroethane	ug/Kg	n/a	<0.80	<0.88	n/a	n/a	n/a	n/a	0.9	n/a
S04M000022		1,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4	<1.5	n/a	n/a	n/a	n/a	1	n/a
S04M000022		Chloroform	ug/Kg	n/a	<0.72	0.96	n/a	n/a	n/a		0.8	n/ai
S04M000022	$\Gamma$	1,2-Dichloroethane	ug/Kg	n/a	<0.76		n/a	n/a	n/a	n/a	0,8	
S04M000022	$\prod$	2-Butanone	ug/Kg	1.1e+02	<0.82	36	n/a	n/a	n/a	1.0e+02	0.9	
S04M000022	] _	1,1,1-Trichloroethane	ug/Kg	n/a	<0.70		n/a	n/a			0.8	
S04M000022	$\mathbf{I}_{-}$	Carbon Tetrachloride	ug/Kg	n/a	<1.3	19	n/a	n/a	n/a		1	n/a
S04M000022	$\prod_{i=1}^{n}$	Trichloroethene	ug/Kg	90	<0.86	<0.95	n/a	n/a	n/a		0.9	
S04M000022	$T_{-}$	Benzene	ug/Kg	88	<0.66	<0.73	n/a	n/a	n/a		0.7	n/a
S04M000022	$T_{-}$	4-Methyl-2-pentanone	ug/Kg	1.0e+02	<0.74	<0.82	n/a	n/a	n/a	1.0e+02	0.8	
S04M000022	$\mathbf{I}_{-}$	Tetrachloroethene	ug/Kg	n/a	<0.70		n/a	n/a	n/a		0.8	
S04M000022		Toluene	ug/Kg	86	<0.64	<0.71	n/a	n/a	n/a	87	0.7	n/a
S04M000022	T	Chlorobenzene	ug/Kg	91	<0.76		n/a	n/a	n/a		0.8	n/a
S04M000022	T	Ethylbenzene	ug/Kg	n/a	<0.98	<1.1	n/a	n/a			1	n/a
S04M000022	T	Xylenes (total)	ug/Kg	n/a		<1:8	n/a	n/a	n/a			n/a
S04M000022	$\mathbf{L}$	1,1-Dichloroethene	ug/Kg	73	<0.76	<0.84	n/a	n/a	n/a	70	0.8	n/a

CORE NUMBER: 222S20040073

SEGMENT #: B18XR8

SEGMENT POR

ORTION: Acid_	Diges	<u>t                                      </u>	<del>,</del>	<del>,</del>	<del></del>		<del></del>	<del></del> -				
Sample#	R A	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %		Count Err%
S04M000103		Silver -ICP-Acid Digest	ug/g	95.8	<4.00e-03	<0.743	0.924	n/a	n/a		0.74	
S04M000103	TA	Arsenic -ICP-Acid Digest	ug/g	113	<0.0514	<9.55	<9.63	n/a	n/a		9.6	
S04M000103		Barium -ICP-Acid Digest	ug/g	97.8	<7.30e-03	43.4	46.7	45.1	7.42	96.9	1.4	
S04M000103	A	Beryllium -ICP-Acid Digest	ug/g	103	<7.70e-03	<1.43		n/a	n/a		1.4	
S04M000103	A	Bismuth -ICP-Acid Digest	ug/g	94.9	<0.0508	<9.44	<9.52	n/a	n/a		9.4	
S04M000103		Cadmium - ICP-Acid Digest	ug/g	94.6	<4.20e-03	11.7	13.0	12.4	10.5		0.78	
S04M000103	A	Chromium -ICP-Acid Digest	ug/g	97.3	0.0496	15.5	15.1	15.3	2.34			n/a
S04M000103	Ā	Copper - ICP-Acid Digest	ug/g	97.6	<7.90e-03	13.2	13.7	13.4	3,63		1.5	
S04M000103	A	Lithium -ICP-Acid Digest	ug/g	100	<8.10e-03	10.4	11.3	10.8	8.29			
S04M000103	Ä	Manganese -ICP-Acid Digest	ug/g	95.5		310			8.22			
S04M000103	- A	Nickel - ICP-Acid Digest	ug/g	97.4		25.4		26.4	7.45		2.3	
S04M000103	A	Phosphorus -ICP-Acid Digest	ug/g	95.9	<0.0556	533		545	4.26		10	
S04M000103	A	Lead -ICP-Acid Digest	ug/g	91.4	<0.0246	5.76		6.44	20.9		4.6	
S04M000103	A	Antimony -ICP-Acid Digest	ug/g	93.3	<0.0502	<9.32	<9.41	n/a	n/a		9.3	
S04M000103		Selenium - ICP-Acid Digest	ug/g	96.8	<0.0494	<9.18		n/a	n/a		9.2	
S04M000103		Strontium -ICP-Acid Digest	ug/g	99.6	<3.30e-03	15.2	17.3	16.3	13.0		0.61	
S04M000103		Zinc - ICP-Acid Digest	ug/g	92.3	<6.90e-03	42.3	42.6	42.4	0.808	91.3	1.3	n/a

SEGMENT	PORTION:	Environmental	L ACID	Digest	

	1									•		!!!
Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average		Spk Rec %		
S04M000104	ΙE	Uranium by Phosphorescence	ug/g	94.8	5.66e-03	1.22	1.66	1.44	30.6	80.4	0.83	<del></del>
S04M000104	E	Pu-239/240 by TRU-SPEC Resin	uCi/g	90.9	<1.22e-04	2.26e-03	2.61e-03	2.44e-03	14.4	n/a	1.3e-04	
S04M000104	E	Pu-238 by TRU-SPEC Resin IonEx	uCi/g	n/a	<1.31e-04	6.57e-04	5.45e-04	6.01e-04	18.6	n/a	1.4e-04	
S04M000104		Np237 by TTA Extraction	uCi/g	103	<2.34e-05	2.89e-05	2.45e-05	2.67e-05	16.5		3.8e-05	
S04M000104	E	Thorium-232 by ICP/MS	ug/g	103	0.319	6.36	5.71	6.04	10.7	94.2	9.6e-04	<del></del>
S04M000104	E	Uranium-233 by ICP/MS Acid Dig	ug/g	n/a	<3.60e-03	3.24e-04	2.53e-04	2.88e-04	24.5	n/a	7.2e-05	
S04M000104	E	Uranium-234 by ICP/MS Acid Dig	ug/g	n/a	<1.20e-03	6.78e-05	5.44e-05	6.11e-05	22.0		2.4e-05	
S04M000104	İΕ	Uranium-235 by ICP/MS Acid Dig	ug/g	99.9	9.74e-03	6.79e-03	6.44e-03	6.62e-03	5.39	109	8.8e-05	
S04M000104	İΕ	Uranium-238 by ICP/MS Acid Dig	ug/g	101	1.38	0.922	0.910	0.916	1.35	98.5	4.4e-03	
S04M000104	E	Cobalt-60 by GEA	uCi/g	103	<1.37e-05	<1.53e-05	<1.37e-05	n/a	n/a	n/a		
S04M000104	ΙE	Antimony-125 by GEA	uCi/g	n/a	<3.69e-05	<3.47e-05	<3.75e-05	n/a	n/a	n/a		<del></del>
S04M000104	Æ	Cesium-134 by GEA	uCi/g	n/a	<1.10e-05	<1.25e-05	<1.20e-05	n/a	n/a	n/a	1.3e-05	
S04M000104	E	Cesium-137 by GEA	uCi/g	108	7.09e-05	<2.61e-05	<2.54e-05	n/a	n/a	n/a		
S04M000104	ΙE	Europium-152 by GEA	uCi/g	n/a	<1.96e-05	<2.07e-05	<2.12e-05	n/a	n/a	n/a		
S04M000104	JE.	Europium-154 by GEA	uCi/g	n/a	<4.87e-05	<4.40e-05	<4.77e-05	n/a	n/a	n/a	4.4e-05	n/a
S04M000104	İΕ	Europium-155 by GEA	uCi/g	n/a	<1.68e-05	<2.06e-05	<2.11e-05	n/a	n/a			
S04M000104		Am-241 by TRU-SPEC Resin IonEx	uCi/g	104	<0.0166	0.309	0.299	0.304	3.29		0.032	
S04M000104	ΤĒ	Alpha Env: Solids/Miscs	uCi/g	100	<6.51e-05	0.296	0.279	0.288	5.91	85.8		
S04M000104	ΙĒ	Beta in Env. Solids/Misc	uCi/g	109	1.84e-03	0.0548	0.0509	0.0528	7.38			
S04M000228	ΤĒ	Sr-89/90 Env. Solids	uCi/g	101	<4.05e-07	7.41e-07	5.08e-07	6.24e-07	37.3	n/a	7.9e-07	82

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ON: NH4 Distil	lati	on		г——								
Sample#R		Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
		7-1-7	ug/g	103	<0.100	192	161	177		83.6		n/a
30411000102		Authoritan torr to broken too	-3/ 3	L								
EGMENT PORTION	PC	B		<del>r - r</del>					<del></del> -	<del></del>		
Sample# R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count ErrX
S04M000107		Aroclor-1016WET by SW-846 8082		n/a	<16	<39	n/a	n/a	n/a	n/a	4.e+01	n/a
S04M000107		Aroctor-1221WET by SW-846 8082		n/a	<5.2	<12	n/a	n/a	n/a	n/a	1.e+01	n/a
S04M000107		Aroclor-1232WET by SW-846 8082		n/a	<92	<2.2e+02	n/a	n/a	n/a	n/a	2.e+02	n/a
S04M000107		Aroclor-1242WET by SW-846 8082		n/a	<17	<40	n/a	n/a	n/a	n/a	4.e+01	n/a
S04M000107		Aroctor-1248WET by SW-846 8082	ug/Kg	n/a	<5.3	<13	n/a	n/a	n/a	n/a	1.e+01	n/a
S04M000107		Aroclor-1254WET by SW-846 8082	ug/Kg	84	<3.1	<7.4	n/a	n/a	n/a	86	7	n/a
S04M000107		Aroctor-1260WET by SW-846 8082	ug/Kg	n/a	<23	<54	n/al	n/a	n/a	n/a	5.e+01	n/a
EGMENT PORTION	Pε	rent			· · · · · · · · · · · · · · · · · · ·							
Some Laff		Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	PPN %	Spk Rec %	Det Limit	Count Err%
Sample# R S04M000101		Cyanide Water Distillation	ug/g	102	<0.550	<0.451	<0.405	n/a	n/a	99.0		n/a
S04M000101		Mercury by CVAA (PE) with FIAS		104	<1.00e-04	0.0900	0.0960	0.0930	6.45	98.0		n/a
S04M000101	╌		DH DH	n/a	n/a	5.97	5.99	5.98	0.334	n/a	0.010	n/a
S04M000101	<del>                                     </del>		ug/g	90.7	<0.158	<14.6	14.6	n/a	n/a	87.2	15	
	Γ	Analyte	Unit	Standard %	Blank <4.0e+02	Result <9.6e+02	Duplicate n/a	Average n/a	RPD %	Spk Rec %		Count Err%
S04M000106	├	Pentachlorophenol	ug/Kg ug/Kg	86	<4.0e+02	<9.6e+02	n/a	n/a	n/a	87		
		Phenol			74. OC ' UC I		10 4			Ų.		l n/al
LCOCHOODAGE	┝	2 - Ch   acaphana		1 2011			n/a		n/a	81		n/a n/a
S04M000106	F	2-Chlorophenol	ug/Kg	80	<4.0e+02	<9.6e+02	n/a	n/a	n/a n/a	81 79	1.e+03	n/a
S04M000106		Pyrene	ug/Kg	91	<4.0e+02 <4.0e+02	<9.6e+02 <9.6e+02	n/a	n/a n/a	n/a n/a	81 79 82	1.e+03 1.e+03	
S04M000106 S04M000106		Pyrene N-Nitroso-di-n-propylamine	ug/Kg ug/Kg	91 86	<4.0e+02	<9.6e+02	n/a n/a	n/a	n/a	79	1.e+03 1.e+03 1.e+03	n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV	ug/Kg ug/Kg ug/Kg	91	<4.0e+02 <4.0e+02 <4.0e+02	<9.6e+02 <9.6e+02 <9.6e+02	n/a	n/a n/a n/a	n/a n/a	79 82	1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol	ug/Kg ug/Kg	91 86 89	<4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02	<9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02	n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a	79 82 83 85 88	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85	<4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02	<pre>&lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02</pre>	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	79 82 83 85 88 88	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94	<pre>&lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02</pre>	<pre>&lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02</pre>	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 86	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83	<pre>&lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02 &lt;4.0e+02</pre>	<pre>&lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02 &lt;9.6e+02</pre>	n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a	<ul> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> </ul>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84	<pre>&lt;4.0e+02 &lt;4.0e+02 /pre>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a n/a 75	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a	<ul> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> </ul>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106		Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84	<pre>&lt;4.0e+02 &lt;4.0e+02 /pre>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a n/a 75	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84	<pre>&lt;4.0e+02 &lt;4.0e+02 /pre>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate DA Analyte	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a	<4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02 <4.0e+02	<9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a	<pre>&lt;4.0e+02 &lt;4.0e+02 /pre> <4.0e+02	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre> <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02 <9.6e+02	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate DA Analyte Vinyl Chloride	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a	<pre>&lt;4.0e+02 &lt;4.0e+02 /pre> <4.0e+02	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a 75 n/a spk Rec %	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 0.e+03 1.e+03	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate DA Analyte Vinyl Chloride Chloromethane	ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a Standard %	<ul> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>4.0e+02</li> <li>6.0e+02</li> <li>6.0e+02</li> <li>6.6e+02</li> </ul>	<pre>&lt;9.6e+02 &lt;9.6e+02 /pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a 75 n/a spk Rec %	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 2.e+02 2.e+02	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000095 \$04M000095	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate DA Analyte Vinyl Chloride Chloromethane Methylene Chloride	ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a Standard % n/a n/a	44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 44.0e+02 45.0e+02 46.0e+02 46.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02 47.0e+02	<pre>&lt;9.6e+02 &lt;9.6e+02 &lt;1.76e+02 &lt;9.6e+02 &lt;1.76e+02 &lt;1.76</pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 n/a 75 n/a n/a n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 2.e+02 2.e+02 2.e+02 3.e+02	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
\$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106 \$04M000106	: v	Pyrene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene SV 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene 2-Methylphenol 3 & 4 Methylphenol Total 1,4-Dichlorobenzene Tri-n-butylphosphate DA Analyte Vinyl Chloride Chloromethane Methylene Chloride Acetone	ug/Kg ug/Kg	91 86 89 85 94 83 85 n/a n/a 84 n/a Standard % n/a n/a	4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 4.0e+02 8.0e+02 8.5e+02	<pre>&lt;9.6e+02 &lt;9.6e+02 &lt;1.7e+02</pre>	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	79 82 83 85 88 86 81 n/a 75 r/a 75 n/a n/a n/a n/a	1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 1.e+03 2.e+02 2.e+02 2.e+02 3.e+02	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a

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Sample#	R A# Analyte	Unit	Standard %	Blank	Resul t	Duplicate	Average	RPD_%	Spk Rec %	Det Limit	Count Err%
S04M000095	1,2-Dichloroethane	ug/Kg	n/a	<1.5e+02	<1.4e+02	n/a	n/a	n/a	n/a		n/a
\$04M000095	2-Butanone	ug/Kg	n/a	<1.6e+02	<1.5e+02	n/a	n/a	n/a	n/a		
S04M000095	1,1,1-Trichloroethane	ug/Kg	n/a	<1.4e+02	<1.3e+02	n/a	n/a	n/a	n/a		n/a
S04M000095	Carbon Tetrachloride	ug/Kg	n/a	<2.6e+02	<2.4e+02	n/a	n/a	n/a	n/a		n/a
\$04M000095	Trichloroethene	ug/Kg	1.0e+02	<1.7e+02	<1.6e+02	n/a	n/a	n/a			n/a
S04M000095	8enzene	ug/Kg	1.0e+02	<1.3e+02	<1.2e+02	n/a	n/a	n/a	91	1.e+02	
S04M000095	4-Methyl-2-pentanone	ug/Kg	n/a)	<1.5e+02	<1.4e+02	n/a	n/a	n/a	n/a		n/a
S04M000095	Tetrachioroethene	ug/Kg	n/a	<1.4e+02	<1.3e+02	n/a	n/a	n/a			n/a
S04M000095	Toluene	ug/Kg	96	<1.3e+02	<1.2e+02	n/a	n/a	n/a			n/a
S04M000095	Chlorobenzene	ug/Kg	1.0e+02	<1.5e+02	<1.4e+02	n/a	n/a	n/a	91	1.e+02	n/a
S04M000095	Ethylbenzene	ug/Kg	п/а	<2.0e+02	<1.8e+02	n/a	n/a	n/a	n/a		
S04M000095	Xylenes (total)	ug/Kg	n/a	<3.2e+02	<3.0e+02	n/a	n/a	n/a			
S04M000095	1.1-Dichloroethene	ug/Kg_	1.2e+02	<1.5e+02	<1.4e+02	n/a	n/a	n/a	92	1.e+02	п/а

SEGMENT	PORT	ION:	Water	Digest

SEGMENT PORTION. WATER DISEST.										
Sample# R A# Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S04M000102 W Fluoride IC SW846	ug/g	97.6	<0.0120	<24.9	<24.7	n/a	n/a			n/a
S04M000102 W Chloride SW-846	ug/g	94.0	<0.0170	39.7	61.7	50.7	43.5		35	n/a
S04M000102 W Nitrite IC SW846	ug/g	96.0	0.130	<224	<222	n/a			2.2e+02	n/a
SO4MOO0102 W Nitrate by IC SW846	ug/g	98.4	<0.139	5.91e+03	6.26e+03	6.09e+03	5.75	101	2.9e+02	n/a
S04M000102 W Phosphate by IC SW846	ug/g	98.5	<0.120	<249	<247		n/a		2.5e+02	n/a
S04M000102 W Sulfate by IC SW846	ug/g	95.8	<0.138	<287	<284	n/a	n/a	97.8	2.9e+02	n/a

CORE NUMBER: 222820040073 SEGMENT #: B18XW3

RTION: VOA												<del></del>
Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S04M000096	$\neg \neg$	Vinyl Chloride	ug/Kg	n/a	<1.5	<1.3	n/a	n/a	n/a	n/a	1	n/a
S04M000096	T	Chloromethane	ug/Kg	n/a	<1.6	<1.5	n/a	n/a	n/a	n/a	1	n/a
S04M000096	丁	Methylene Chloride	ug/Kg	n/a	<1.3	<1.1	n/a	n/a	n/a	n/a	1	n/a
S04M000096		Acetone	ug/Kg	n/a	10	_51	n/a	n/a	n/a	n/a	8.0	
S04M000096		1,1-Dichloroethane	ug/Kg	n/a	<0.80	<0.72	n/a	n/a	n/a	n/a	0.7	n/a
S04M000096		11,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4	<1.2	n/a	n/a	n/a	n/a		n/a
S04M000096		Chloroform	ug/Kg	n/a	<0.72	15	n/a	n/a	n/a		0.6	n/a
S04M000096	LĽ.	1,2-Dichloroethane	ug/Kg	n/a	<0.76	<0.68	n/a	n/a	n/a	n/a	0.7	n/a
S04M000096	$_{ m L}$	2-Butanone	ug/Kg	n/a	0.94	27	n/a	n/a				n/a
S04M000096		1,1,1-Trichloroethane	ug/Kg	n/a	<0.70	<0.63	n/a	n/a		n/a	0.6	
S04M000096		Carbon Tetrachloride	ug/Kg	n/a	<1.3	2.6e+02	n/a	n/a		n/a	1	n/a
S04M000096	$\perp L$	Trichloroethene	ug/Kg	1.0e+02	<0.86	<0.77	n/a	n/a			0.8	
S04M000096	$\perp$	Benzene	ug/Kg	1.0e+02	<0.66	<0.59	n/a	n/a			0.6	
S04M000096		4-Methyl-2-pentanone	ug/Kg	n/a		<0.66	n/a	n/a	n/a		0.7	n/a
S04M000096		Tetrachloroethene	lug/Kg	n/a		0.94		n/a				
S04M000096	$\perp$	Toluene	ug/Kg	96	<0.64	<0.57	n/a	n/a				
S04M000096		Chlorobenzene	ug/Kg	1.0e+02	<0.76		n/a	n/a			0.7	n/a
S04M000096		Ethylbenzene	ug/Kg	n/a	<0.98	<0.88		n/a	n/a			n/a
S04M000096		Xylenes (total)	ug/Kg	n/a		<1.4	n/a	n/a				n/a
S04M000096		1,1-Dichloroethene	ug/Kg	97	<0.76	<0.68	n/a	π/a	n/a	94	0.7	n/a)

16-jun-2004 07:58:04 A-0002-1(21)

Attachment 2 Z9 TRENCH5 Data Summary Report

CORE NUMBER: 222520040073
SEGMENT #: B19078 - A Days 6/23/04

~~ 1 4	Old . Fills II	OF MIRES SCALE AC	u bigcot											
						1 — —	_				j			
Ìs	ample#	R A# Analy	:e	•	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %		Count Err%
	04M000108	E Pu-239	7/240 by TRU-5	PEC Resin	uCi/g	111	<1.26e-03	4.99e-03	5.79e-03	5.39e-03	14.8	n/a	1.3e-03	
S	04M000108	E Pu-238	by TRU-SPEC	Resin IonEx	uCi/g	n/a	<1.46e-03	<1.48e-03	<1.86e-03	n/a	n/a	n/a	1.5e-03	1.0e+02

CORE NUMBER: 222S20040100 SEGMENT #: B17N64

RTION: VOA										<del></del>		
Sample# R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average		Spk Rec %	Det Limit	Count Err%
S04M000115		Vinyl Chloride	ug/Kg	n/a	<1.5	<1.8	n/a	n/a	n/a		2	n/a
S04M000115	Π	Chloromethane	ug/Kg	n/a	<1.6	<2.0	n/a	n/a	n/a			n/a
S04M000115	1	Methylene Chloride	ug/Kg	n/a	<1.3	<1.5	n/a	n/a	n/a	<del></del>		n/a
S04M000115		Acetone	ug/Kg	n/a	<0.92	1.7e+02	n/a	n/a	n/a	<del></del>		n/a
S04M000115		1,1-Dichloroethane	ug/Kg	n/a	<0.80	<0.96		n/a	n/a	<del></del>		n/a
S04M000115	$\mathbf{I}_{-}$	1,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4	<1.6	n/a/	n/a	n/a			n/a
S04M000115	$\Box$	Chloroform	ug/Kg	n/a	<0.72	8.7	n/a	n/a	n/a	<del></del>	0.9	n/a
S04M000115	$\Box$	1,2-Dichloroethane	ug/Kg	n/a	<0.76	<0.91	n/a	n/a		<del></del>	0.9	
S04M000115		2-Butanone	ug/Kg	n/a	<0.82	75	n/a	n/a	n/a		1:	n/a
S04M000115		1,1,1-Trichloroethane	ug/Kg	n/a	<0.70	<0.84	n/a)	n/a		<del></del>		
S04M000115	$\Gamma_{-}$	Carbon Tetrachloride	ug/Kg	n/a	<1.3	92	n/a	n/a				n/a
S04M000115		Trichloroethene	ug/Kg	1.0e+02	<0.86	<1.0	n/a	n/a				n/a
S04M000115	L	Benzene	ug/Kg	1.0e+02	<0.66	<0.79	n/a	n/a	_		0.8	
S04M000115		4-Nethyl-2-pentanone	ug/Kg	n/a	<0.74	1.2	n/a	n/a				
S04M000115	L	Tetrachloroethene	ug/Kg	n/a	<0.70	2.0		n/a				
S04M000115		Toluene	ug/Kg	97	<0.64	1.3	n/a	n/a				
S04M000115	L.	Chlorobenzene	ug/Kg	1.0e+02	<0.76		n/a	n/a		<del></del>	0.9	n/a
S04M000115		Ethylbenzene	ug/Kg	n/a	<0.98	<1-2	n/a	n/a	<del></del>			n/a
S04M000115	L	Xylenes (total)	ug/Kg	n/a	<1.6	<1.9	n/a	n/a				n/a
S04M000115		1,1-Dichloroethene	ug/Kg	95	<0.76	<0.91	n/a	n/a	<u>n/a</u>	94	0.9	n/a)

CORE NUMBER: 222S20040100 SEGMENT #: B17N64-A

ORTION: VOA		<del></del>								<del></del> -		<del>,</del>
Sample#	R A#	  Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec_%	Det Limit	Count Err%
S04M000124	7	Vinyl Chloride	ug/Kg	n/a	<1.5	<1.3	n/a	n/a	n/a	n/a	1	n/a
S04M000124		Chloromethane	ug/Kg	n/a		<1.4	n/a	n/a	n/a			n/a
S04M000124	$\neg$	Methylene Chloride	ug/Kg	n/a	<1.3	<1.1	n/a	n/a	n/a			n/a
S04M000124		Acetone	ug/Kg	n/a	7.2	79	n/a	n/a	n/a	n/a		<del></del>
S04M000124		1,1-Dichloroethane	ug/Kg	n/a	<0.80	<0.67	n/a	n/a	n/a	n/a	0.7	n/a
S04M000124	T	1,2-Dichloroethene (cis & tran	ug/Kg	n/a		<1.2		n/a	n/a			n/a
S04M000124	Т	Chloroform	ug/Kg	n/a	<0.72	13	n/a	n/a	n/a	n/a		
S04M000124	Ţ.	1,2-Dichloroethane	ug/Kg	n/a	<0.76	<0.64		n/a	n/a	n/a		
S04M000124		2-Butanone	ug/Kg	n/a	0.95	_80		n/a	n/a			n/a
S04M000124		1,1,1-Trichloroethane	ug/Kg	n/a	<0.70	<0.59		n/a	n/a		<del></del>	
S04M000124	$\Box$	Carbon Tetrachloride	ਪg/Kg	n/a	<1.3	2.4e+02		n/a	n/a			n/a
S04M000124		Trichloroethene	ug/Kg	99	<0.86	<0.72		n/a	n/a	<del></del>		
S04M000124		Benzene	ug/Kg	98		<0.56		n/a	n/a	<del></del>		
S04H000124	$\Box \Box$	4-Methyl-2-pentanone	ug/Kg	n/a	<0.74	<0.62	n/a	n/a	n/a	<del></del>		
S04M000124		Tetrachloroethene	ug/Kg	n/a	<0.70	5.4		n/a	n/a	n/a		<del></del>
S04M000124		Toluene	ug/Kg	95	<0.64	<0.54	n/a	n/a	n/a	n/a		<del></del>
S04M000124		Chlorobenzene	ug/Kg	97					n/a	<del></del>		
S04M000124		Ethylbenzene	ug/Kg	n/a	<0.98	<0.82	n/a	n/a	n/a	n/a	0.8	<del></del>
S04M000124		(Xylenes (total)	ug/Kg	n/a	<1.6	<1.3	n/a	n/a	n/a	n/a		n/a
\$04H000124	Ţ	1,1-Dichloroethene	ug/Kg	94	<0.76	<0.64	n/a	n/a	n/a	n/a	0.6	n/a

CORE NUMBER: 222S20040100

SEGMENT #: B17N68

CTIUN: VUA				<del></del>	<del></del>							<del></del>
Sample#	R A#	Analyte	Unit _	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %		Count Err%
S04M000116	T	Vinyl Chloride	ug/Kg	n/a	<1.5e+02	<1.7e+02	n/a	n/a	n/a	n/a	2.e+02	n/a
S04M000116_	$\top$	Chloromethane	ug/Kg	n/a	<1.6e+02	<1.8e+02	n/a	n/a	n/a	n/a	2.e+02	
S04M000116	T	Methylene Chloride	ug/Kg	n/a	<1.3e+02	<1.4e+02	n/a	n/a	n/a	n/a	1.e+02	n/a
S04M000116	Τ.	Acetone	ug/Kg	n/a	<92	6.6e+02	n/a	n/a	n/a	n/a	1.e+02	n/a
S04M000116_	$\top$	1,1-Dichloroethane	ug/Kg	n/a	<80	<89	n/a	n/a	n/a	n/a	9.e+01	n/a
S04M000116	П.	1,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4e+02	<1.5e+02	n/a	n/a	n/a	n/a	1.e+02	n/a
S04M000116		Chloroform	ug/Kg	n/a	<72	<80	n/a	n/a	n/a	n/a	8.e+01	n/a
S04M000116		1,2-Dichloroethane	ug/Kg	n/a	<76	<84	n/a	n/a	n/a	n/a	8.e+01	n/a
S04M000116		2-Butanone	ug/Kg	n/a	<82	<91	n/a	n/a	n/a	n/a	9.e+01	n/a
S04M000116		1,1,1-Trichloroethane	ug/Kg	n/a	<70	<77	n/a	n/a	n/a	n/a		
S04M000116		Carbon Tetrachloride	ug/Kg	n/a	<1.3e+02	<1.4e+02	n/a	n/a	n/a	n/a	1.e+02	n/a
S04M000116	1	Trichloroethene	ug/Kg	83	<86	<95	n/a	n/a	n/a	91	9.e+01	n/a
S04M000116	$\overline{}$	Benzene	ug/Kg	94	<66	<73	n/a	n/a	n/a	1.0e+02	7.e+01	n/a
S04M000116	T	4-Methyl-2-pentanone	ug/Kg	n/a	<74	<82	n/a	n/a	n/a	n/a	8.e+01	n/a
S04M000116	T	Tetrachloroethene	ug/Kg	n/a	<70	<77	n/a	n/al	n/a	n/a	8.e+01	n/a
S04M000116	T	Toluene	ug/Kg	1.0e+02	<64	<71	n/a	n/a	n/a		7.e+01	n/a
S04M000116	T	Chlorobenzene	ug/Kg	99	<76	<84	n/a	n/a	n/a	1.1e+02	8.e+01	n/a
S04M000116	T	Ethylbenzene	ug/Kg	n/a	<98	<1.1e+02	n/a	n/a	n/a	n/a	1.e+02	n/a
S04M000116	T	Xylenes (total)	ug/Kg	n/a	<1.6e+02	<1.8e+02	n/a	n/a	n/a		2.e+02	n/a
S04M000116	1.	1,1-Dichloroethene	ug/Kg	79	<76	<84	n/a	n/a	n/a	85	8.e+01	n/a

CORE NUMBER: 222520040101 SEGMENT #: B191Y4

RTION: VOA		<del>,</del>		<del></del>	7							<del>,</del>
Sample#R	A#	Analyte	บ <sub>กit</sub>	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S04M000118		Vinyl Chloride	ug/Kg	n/a	<1.5	<1.5	n/a	n/a	n/a			n/a
S04M000118		Chloromethane	ug/Kg	n/a	<1.6	<1.6	n/a	n/a	n/a		2	n/a
S04M000118		Methylene Chloride	ug/Kg	n/a	<1.3	<1.2	n/a	n/a	n/a	n/a	1	n/a
S04M000118		Acetone	ug/Kg	n/a	<0.92	41	n/a	n/a	n/a			
S04M000118		1,1-Dichloroethane	ug/Kg	n/a	<0.80	<0.79	n/a	n/a	n/a	n/a	8.0	
S04M000118		1,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4	<1.4	n/a	n/a	n/a	n/a	1	n/a
S04M000118	ī	Chloroform	ug/Kg	n/a	<0.72	14	n/a	n/a	n/a			n/a
S04M000118		1,2-Dichloroethane	ug/Kg	n/a	<0.76	<0.75	n/a	n/a	n/a			n/a
S04M000118	$\Gamma$	2-Butanone	ug/Kg	n/a	<0.82	22	n/a	n/a	n/a			
S04M000118	$\Box$	1,1,1-Trichloroethane	ug/Kg	n/a	<0.70	<0.69	n/a	n/a	n/a			r√a
S04M000118	L	Carbon Tetrachloride	ug/Kg	n/a	<1.3	2.9e+02	п/а		n/a			n/a
S04M000118		Trichloroethene	ug/Kg	1.0e+02	<0.86	1.1	n/a	n/a	n/a			
S04H000118		Benzene	ug/Kg	1.0e+02	<0.66	0.97	n/a	n/a				
S04M000118	$\Gamma$	4-Methyl-2-pentanone	ug/Kg	n/a		<0.73	n/a	n/a	n/a			n/a
S04M000118_	L.	Tetrachloroethene	ug/Kg	n/a		1.6	n/a	n/a				n/a
S04M000118	Т	Toluene	ug/Kg	97	<0.64	0.97	n/a	n/a	n/a	n/a		
S04M000118	L	Chl orobenzene	ug/Kg	1.0e+02	<0.76	0.98	n/a	n/a	n/a			n/a
S04M000118	T.	Ethylbenzene	ug/Kg	n/a	<0.98	<0 <u>.9</u> 7	n/a	n/a	n/a		1	n/a
S04M000118	T	Xylenes (total)	ug/Kg	n/a	<1.6	<1.6	n/a	n/a				n/a
S04M000118		1,1-Dichloroethene	ug/Kg	95	<0.76	<u> </u>	n/a	n/a	n/a	n/a	0.7	n/a

FLUOR Hanfo	rd Inc.	CE	NTRAL PLATEAU	CHAIN OF	CUSTO	DY/SAMPLI	E ANA	LYSIS REC	QUEST	F03	-018-097	Page 1	of 1
Collector Gent/Pope/Pfister/Hughes			any Contact re Trent	Telepho 373-5				Project Coo TRENT, SJ	rdinator	Price Code	8N	Data Tur	naround Days
Project Designation 216-Z-9 Trench Characteriza	ation Borehole - Soil		ling Location -Z-9/C3426					SAF No. F03-018		Air Quality	<u> </u>		
Ice Chest No. 2/2C_C	19-005		Logbook No. F-N-3361		COA 119152E	S10		Method of S Governme	hipment nt Vehicle	<del></del>			
Shipped To 222-S Lab Operations		Offsit N//	e Property No.					Bill of Ladi N/A	ng/Air Bill	No.	·	· 	
POSSIBLE SAMPLE HAZ	RDS/REMARKS				1		ł	ł	Ì	1		]	
RADIOACTIVE TIE TO: BI9	1 7 5	•	Preservation	Cool 4C	Cool 4C	None					<u> </u>		
Special Handling and/or	Storage		Type of Container	aGs*	aG	P /	<u> </u>			<del></del>	<del> </del>	<u> </u>	<u> </u>
	_		No. of Container(s)	3	1	1 /	<u> </u>				<u> </u>		
			Volume	40mL	60mL	500mL							
	SAMPLE ANAL	YSIS	<del>1 </del>	See item (1) in Special Instructions.	Special/	Sportal	retu	rned to tomen on air of a	stody				
Sample No.	Matrix *	Sample Date	Sample Time	And the second second			- e.k	am					
B191Y4	SOIL	4(2110	4 0930	χ	/ <b>X</b>	/X	-						
		Trecte		<del> </del>	The	ese tw	b L	ottles	40000	relabe	led		
		<del></del>			1-226	as	8191		retur		4/29/04	1	
<del></del>	<del>   </del>			1							7		
					7							<u>]                                     </u>	}
CHAIN OF POSSESSI		Sign/Pri	it Names		SPI	CIAL INSTI	RUCTIO	ONS	: 66 63	110 07 6-			Matrix *
Retinquished By/Removed From	Date Time /4/10	Received By/Sty	mys Loughon	Date/Time/4	of res	pectively.	-1			and 10 pCi/g for g			S=Soil SE=Sodiment SO=Solid
Relinquished By/Removed From	Date/Fine 142		""" " " " L	Date/Time	72)	-Semi-VOA - 82	70A (TC	L); Semi-VOA -	(Add-On) { <i>A</i> - 8270A (Add	cetonitrile, Hexan -On) {1,2,4-Trime	ie, n-Butylbenz ethylbenzene,	ene }	SI=Shidge W = Water O=Oil
Relinquished By/Removed From	Date/Time	Received By/Sto		Date/Time	(3)	4 Europium 156	ross Bets	Gamma Spectr	-LAntimonv-1	ım-137, Cobalt-60 25, Cesium-134};	Americium-24	l· Isotopic	A=Aif DS=Drum Solids
Relinquished By/Removed From	Date/Time	Received By/Str	ored In I	Date/Time	Plu 23'	ntonium; Isotopic 7; Total Uranium	Thorium 500 A	(Thorium-232): ししらサルシ	Isotopic Urar	ded with	9,90 - Sr-90; N	leptunium Park Joh	T=Tissue Wi=Wipe L=Liquid V=Vegetation
Relinquished By/Removed From	Date/Time	Received By/St	ored In	Date/Time	th	ise analy	yses Trun	were ret	runed to	ched with customer quest from	S.J. Trev	k 4128104	X=Other
Relinquished By/Removed From	Date/Time	Received By/Ste	ored In I	Date/Time	hei	w chain s	6						<u> </u>
LABORATORY Received SECTION	Ву			Т	itle				- 7		•	Date/Time	
FINAL SAMPLE Disposal DISPOSITION	Method			<u></u> .		Disp	osed By	<del></del>		· · · · · ·		Date/Tune	
A-6003-618(03/03)		. ·	<del></del>			<del> </del>							

GENERATOR	KNOWLE	DGE INFORM	IATION			
1. Chain of Custody Number CACI	N/COA 1184	78ES20 Cus	tomer Identifi	cation Numi	per	
2. List generator knowledge or description of process that produc	æd sample. Or	list description of sa	mple source:			
216-Z-9 Trench DNAPL Investigation						
		•				
MSDS Available?   No Yes Hanford MSDS No			·		<del></del>	
List all waste codes and constituents associated with the waste     Does the sample contain any of the following listed waste or		was sampled, regard	lless of CER	CLA status.	•	٠.
By checking "unknown" the customer understands tha		e is available folio	ving a caref	ul search.		•
List Federal Waste Code(s):	List (	Constituent(s):				
P Codes:				O Yes	● No	O Unknown
U Codes:				○ Yes	● No	O Unknown
K Codes:	<del></del>	·		Yes	● No	O Unknown
F Codes: F001				Yes	O No	O Unknown
b) List applicable characteristic waste codes, flash point, pH, o				_	_	
D001: ☐ FP <100°F ☐ FP ≥100 <140°F	№ топ 🔲	dizer	·	O Yes	No     No	O Unknown
D002: ☐ pH ≤2 ☐ pH ≥12.5		rrosive (WSC2)		O Yes	. O No	O Unknown
D003: Cyanide Sulfide Water Read		Other(i.e., peroxide forme	ır,	Yes	<b>●</b> No	O Unknown
D004-D043 (Identify applicable waste codes and concentra	iuons);	explosive, air reactive	ve)	<b>○</b> Yes	● No	O Unknown
	*	*;.				
c) If characteristic, list any known underlying hazardous const present above the LDR treatment standard (40 CFR 268.48).	ituents (UHCs)	reasonably expected	d to be prese	nt, and their	concentrati	ons that may be
	3):					
N/A		٠.				
d) List any known Land Disposal Restrictions (LDR) subcateg	ories, if apolical	ble (40 CFR 268.40)	):			
N/A	,u,,-u, u-pp		,	•		
						,
e) List any applicable Washington State dangerous waste coo	des: (not require federally re	ed if	(*State mi	xture rule fo	r ignitability	)
WT01: O Yes No O Unknown	tegerany re	,golateo,	WP01:	O Yes	● No	Unknown
WT02: O Yes O No O Unknown			WP02:	O Yes	<ul><li>No</li><li>No</li></ul>	Unknown Unknown
W001: Yes No Unknown List constituents and concentrations:			WP03: F003:*	○ Yes ○ Yes	⊕ No	O Unknown
List Consulations and Concentations.					•	
4. Is this material TSCA regulated for PCBs? Yes	● No C	) Unknown	Analysis Requ	uested		
List concentration if applicable:					·	· · · · · ·
If yes, what is the source of the PCBs? (see TSCA PCB Hanfe	ord Site User G					
☐ PCB Liquid Waste ☐ PCB Bulk Produc		PCB Transform			Inknown	allagh stoo nam
☐ PCB Remediation Waste ☐ PCB R&D Waste ☐ PCB Soill Material ☐ PCB Item	•	Other PCB Was				allast) <500 ppm
		Other POS Was	ore (usr)	<del></del>		
5. Is this material TRU? Yes No @ Unknow	171 l					
6 ACCURACY OF INFORMATION  Resed on my Inquitor of those individuals immediately respons	sible for obtainin	ng this information th	nat to the bes	t of my knov	vledge, the l	nformation
Based on my inquiry of those individuals immediately responsentered in this document is true, accurate, and complete		A = = =		• •	inti	102
Print & Sign	· ·			Date _	1016	103
					-	

CORE NUMBER: 222520040101 SEGMENT #: B191Y4-A

DR T_	ION: VOA		<del></del>	<del>,</del>	<del></del>			<del></del>					
	Sample#	R A#	Analyte	Unit	Standard %	Blank		Duplicate	Average	RPD %	Spk Rec %		Count Err%
Ţ	S04M000123	<u> </u>	Vinyl Chloride	ug/Kg	n/a	<1.5e+02	<1.5e+02	n/a	n/a	n/a	n/a		n/a
1	S04M000123	$\neg$	Chloromethane	ug/Kg	n/a	<1.6e+02	<1.6e+02	n/a	n/a	n/a	n/a	2.e+02	n/a
- [9	504M000123		Methylene Chloride	ug/Kg	n/a	<1.3e+02	<1.2e+02	n/a	n/a	n/a		1.e+02	n/a
- 19	S04M000123		Acetone	ug/Kg	n/a	<92	5.9e+02	n/a)	n/a	n/a			n/a
- [	S04M000123		1,1-Dichloroethane	ug/Kg	n/a	<80	<79	n/a	n/a	n/a			n/a
- 13	S04M000123	┰	1,2-Dichloroethene (cis & tran	ug/Kg	n/a	<1.4e+02	<1.4e+02	n/a	n/a			1.e+02	
- 13	S04M000123	$\top$	Chloroform	ug/Kg	n/a	<72	<71	n/a	n/a	n/a	n/a		n/a
- [	S04M000123	Т	1,2-Dichloroethane	ug/Kg	n/a	<76	<75	n/a	n/a	n/a	n/a		n/a
7	S04M000123	7	2-Butanone	ug/Kg	n/a	<82	<81	n/a	n/a	n/a	n/a	8. e+01	n/a
- [7	S04H000123	7	1,1,1-Trichloroethane	ug/Kg	n/a	<70	<69	n/a	n/a	n/a	n/a		n/a
- [	S04M000123	7	Carbon Tetrachloride	ug/Kg	n/a	<1.3e+02	<1.3e+02	n/a	n/a	n/a	n/a		n/a
- [	S04M000123	7	Trichloroethene	ug/Kg	83	<86	<85	n/a	n/a	n/a	n/a	8.e+01	n/a
- 1	S04M000123	7	Benzene	ug/Kg	94	<66	<65	n/a	n/a	n/a	n/a		n/a
1	S04M000123	1	4-Methyl-2-pentanone	ug/Kg	n/a	<74	<73	n/a	n/a	n/a	n/a		n/a
Ī	S04M000123	┰	Tetrachloroethene	ug/Kg	n/a	<70	<69	n/a	n/a	n/a	n/a	7.e+01	
T.	S04M000123	7	Toluene	ug/Kg	1.0e+02	<64	<63	n/a	n/a	n/a	n/a		n/a)
1	S04M000123		Chlorobenzene	ug/Kg	99	<76	<b>&lt;75</b>	n/a	n/a	n/a	n/a		n/a
ı	S04M000123	1	Ethylbenzene	ug/Kg	n/a	<98	<97	n/a	n/a	n/a	n/a	1.e+02	
- 17	S04M000123	7	Xylenes (total)	ug/Kg	n/a	<1.6e+02	<1.6e+02	n/a	n/a	n/a	n/a		n/a
1	S04M000123	_	1.1-Dichloroethene	ug/Kg	79	<76	<75	n/a	n/a	n/a	n/a	7.e+01	n/a

### CH2M-0401824

Attachment 3

SAMPLE BREAKDOWN DIAGRAM

Consisting of 6 pages, including coversheet

## B17N61

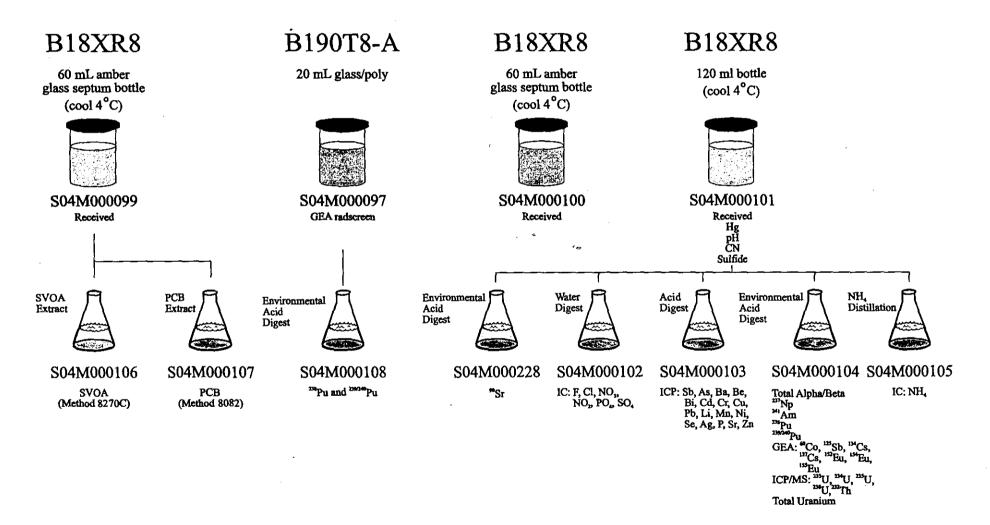
3x40 mL amber glass septum bottle (cool 4°C)



S04M000022 VOA (Method 8260B)

(low-level)

00003;



## **B18XW3**

3x40 mL amber glass septum bottle (cool 4°C)



S04M000096 VOA (Method 8260B) (low-level)

## **B18XR8**

3x5 g EnCore Sampler (cool 4°C)



S04M000095 VOA (Method 8260B) (high-level)

## B17N64

3x40 mL amber glass septum bottle (cool 4°C)



S04M000115 VOA (Method 8260B) (low-level)

## B17N64-A

2x40 mL amber glass septum bottle (cool 4°C)



S04M000124 VOA (Method 8260B) (additional low-level analysis)

## B17N68

3x5 g EnCore Sampler (cool 4°C)



S04M000116 VOA (Method 8260B) (high-level)

B191Y4

B191Y4-A

3x40 mL amber glass septum bottle (cool 4°C)



S04M000118 VOA (Method 8260B) (preserved a portion for low-level analysis)



S04M000123 VOA (Method 8260B) (preserved a portion for high-level analysis)

B191Y4

B191Y4

500 mL bottle

60 mL amber glass bottle (cool 4°C)



S04M000119 Received



Received

S04M000120

Analysis request was cancelled per customer contact on 4/28/04. Samples were returned to customer on 4/29/04.

### CH2M-0401824

Attachment 4

SAMPLE RECEIPT PAPERWORK

Consisting of 12 pages, including coversheet

FLUOR I	Hanford Inc.	TRAL PLATEAU (	CHAIN O	CUS	TOD	//SAMPL	E ANA	LYSI	S REQUI	EST		F03-0	18-058	Page 1	of ]	
Collector Pope/Pfister/Hughes			ny Contact e Trent	Telepho 373-5	269					ect Coordin NT, SJ	ator	Price Co	de 8	BN	Data Tur	1
Project Designation 216-Z-9 Trench Chan	acterization Borehole - Soil	Sampli 216	ing Location -Z-9/C3426 - Interval <del>86</del>	ASK- 2 88.5 90	/20100 1 - 9	1 2.5'			SAF F03-0			Air Qua	ality		60	Days
Ice Chest No 04	-008	Field I	ogbook No. F-N-3361		CO					od of Ship				<u> </u>		
Shipped To 222-S Lab Operation	ıs	Offsite N/A	Property No.						Bill (	of Lading//	Air Bill N	ło.				
POSSIBLE SAMPLE	HAZARDS/REMARKS		_ <del></del>							[		1				<b>i</b>
RADIOACTIVE TIE TO	O: BI7NNO	• !	Preservation	Cool 4C										·		
   Special Handling at	nd/or Storage		Type of Container	P 3	<del> </del>				$\rightarrow$							
	g with the encore sampler. If Roo WSCF. Sample analysis must be		No. of Container(s)	5g	<del> </del>									<u></u> -		
hours or preserve with	hours or preserve with methanol. Volume						· 	ļ. ——	$\dashv$				_	·		
		See item (1) in Special Instructions.					-					į				
Sample No.	Matrix *	Sample Date	Sample Time	la se les censes a pari	*****	· ·· · · · · · · · · · · · · · · · · ·	grantification of comme	Emiliar Inv. co.d p		is an experience, grandpassing	· · · · · · · · · · · · · · · · · · ·	er - y Çiniyeringistarın			Commission of the same	The State of the State S
B17N61	SOIL	3-23-4	0835			and account	*			oneg						
ļ		· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del> </del>			<u> </u>	}		<del></del>	<del></del>				<u> </u>
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CHAIN OF POS	SESSION	Sign/Prin	t Names	<u> </u>		SPEC	L IAL INSTI	L	ONS		L	L			<u> </u>	Matrix *
Relinquished By/Removed In Color Relinquished By/Removed In Color Relinquished By/Removed In Color Relinquished By/Removed In Rel	Rm Trailer From the state of th	ate/Time	23-4 230 230 245		OA - 8260A -			8260A (Ad	d-Оп) {Ac	cetonitrile, F	dexane, s			S=Soil SE=Sodiment SO=Solid Si=Studge W = Water O=Oil A=Air DS=Drann Solids DL=Drunn Liquids T=Tissue Wi-Wipe L=Liquid V=Vegetation X=Other		
LABORATORY Re	eccived By	·		T	itle										ate/Time	
FINAL SAMPLE DISPOSITION	INAL SAMPLE Disposal Method						Dispo	sed By	•					Ī	Date/Time	

FLUOR Hanford Inc.	CEN	TRAL PLATEAU C	HAIN O	F CUS	STOD	Y/SAMPLI	EANA	LY	SIS REQU	EST		F03-	018-082	Page 1	of <u>I</u>
Collector Pope/Pfister/Hughes/Wiberg		ny Contact e Trent	Telepho 373-5	869					oject Coordin ENT, SJ	ator	Pri	ce Code	8N		rnaround
Project Designation 216-Z-9 Trench Characterization Borehole - Soil	Sampli 216-	ng Location Z-9/C3426 DEPT4	101-	الغ	5'				F No. 3-018		Aiı	Quality			Days
Ice Chest No.	Field L HNi	ogbook No. -N-3361		CC 119	)A )152ES	310		Me	thod of Ship Government \	ment /ehicle					
Shipped To 222-S Lab Operations	Offsite N/A	Property No.			-				II of Lading/ N/A	Air Bill	No.				
POSSIBLE SAMPLE HAZARDS/REMARKS				Ţ					] -						}
·	•	Preservation	Cool 4C	_	<u>.</u>										
Special Handling and/or Storage		Type of Container	P 3	_		ļ									
	•	No. of Container(s)	5g	<del> </del>		<del> </del>			<del> </del>			<del></del>			ļ
	! <u></u>	Volume	<u> </u>	1_		<u> </u>			ļ						-
SAMPLE ANALYSIS		See item (1) i Special Instructions										, !			
Sample No. Matrix *	Sample Date	Sample Time		1								ن ن ن ن			
B18XR8 SOIL	48/04	1015	\ \\\\			-	<u> </u>		<del> </del>	<u> -</u>				<u> </u>	ļ
<u> </u>			<del> </del>	-		<del> </del>	<del>                                     </del>		<del> </del>	<del> </del>		<del></del>	 	<u> </u>	<del> </del>
			<del> </del>			<del> </del>			<del> </del>				<del></del>		<del>                                     </del>
			<del> </del>	┼		<del> </del>	_		<del> </del>	<del>                                     </del>	-				<del></del>
CHAIN OF POSSESSION	Sign/Prin	Names			SPE	CIAL INSTE	RUCTI	ONS	- <del>1</del> -	<b>.</b>	_		L	!	Matrix *
Relinquisted By/Removed From Date/Time 104 R	eccived By/Stor	ed in Di	8/04	5	(1)	VOA - 8260A -	Comple	te; V	OA - 8260A (A	dd-On) (/	\c <del>e</del> lo	nitrile, Hexand	, n-Butylbenze	ne}	S=Soil SE=Sediment SO=Solid
Palinguished Bu/Parround From Date/Time P	eceived Bu/Stor		ate/Time	C34/	ļ		•								SI=Sludge W = Water O=Oil
Relinquished By/Removed From Date/Time R	eccived By/Stor	ed in D	ate/Time 4/8/c4		1										A=Air DS=Drum Solids DL=Drum Liquids
	Keith Ful deceived By/Stor		ate/Time	,,,,,,	1										T=Tissue WI=Wipe L=Liquid
Relinquished By/Removed From Date/Time R	teceived By/Sto	ed In D	ate/Time	<u>,</u>	1	•									V=Vegetation X=Other
Relinquished By/Removed From Date/Time R	teccived By/Sto	red In D	ate/Time		1										
LABORATORY Received By SECTION			7	itle	1	<del> </del>			<del></del>	·			. D	Date/Time	
FINAL SAMPLE Disposal Method DISPOSITION	NAL SAMPLE Disposal Method					Dispo	sed By				_		E	Date/Time	

FLUOR Ha	FLUOR Hanford Inc. CENTRAL PLATEAU CHAIN OF							E ANA	LYS	SIS REQUI	EST		F03-	-018-091	Page 1	of <u>1</u>
Collector Pope/Pfister/Hughes/Wi	iberg		ny Contact e Trent	Telepho 373-5	ne No. 869					ject Coordin ENT, SJ	ator	Pric	e Code	8N	Data Tur	
Project Designation 216-Z-9 Trench Charact	terization Borehole - Soil		ng Location Z-9/C3426 //O	-112.5	, per	<b>و</b>				F No. -018		Air	Quality			Days
Ice Chest No. 5/N 2	163-050024		ogbook No. F-N-3361		CO 1191	A 152ES	10			thed of Ship Sovernment			·		- <del>,</del> -	·
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POSSIBLE SAMPLE H	IAZARDS/REMARKS		Preservation	Cool 4C					_							
Special Handling and	Vor Stavese	;	Type of Container	G												
Special Handring and	ion Storage		No. of Container(s)	3					,			_}				} }
			Volume	40mL Sec item (1) in	-					 		_	·	<del> </del>		\ <del></del>
	SAMPLE ANAL	YSIS		Special Instructions.	`{; }											
Sample No.	Matrix *	Sample Date	Sample Time													
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CHAIN OF POSSE	ESSION	Sign/Prio				SPEC	IAL INSTI	RUCTIO	ONS	·				<del></del>	<u></u>	Matrix *
Relinquished By/Removed Fro	4-8-4 1435	Received By/Stor	4-8-4			(1) V	'OA - 8260A -	Complet	ie; VO	)A - 8260A (Ad	ld-On) {/	Acetoni	trile, Hexane	e, n-Butyibenze	ne}	S=Soil SE=Sodimen SO=Solid
Relinquished By Removed Fro	Date/Time	Received By/Stor	mig Ary Home	~ 4414 le	9	}										SI=Studge W = Water O=Oil
Relinquished By/Removed fire	Date/Time 1/00	Received By/Sto	Rtsteele	ate/Time	00											A=Air DS=Drum Solids DL=Drum Liquids T=Tissue
Relinquished By/Removed Fro	om Date/Time	Received By/Sto	red in D	Pate/Time	<u></u>										•	WI= Wipe L=Liquid V=Vegetation
Relinquished By/Removed Fro		Received By/Sto		Pate/Time											•	X=Other
Retinquished By/Removed Fro	om Date/Time	Received By/Sto	red in D	Pate/Time												<u>}</u>
LABORATORY Received	ived By			Т	tle										Pate/Time	
· L	AL SAMPLE Disposal Method						Disp	osed By						i	Date/Time	

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i			alytical Labo		WOO	Radioactive -	sco		Physical Form	_		Gas
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FLUOR Hanford Inc.	CEN	TRAL PLATEAU C	HAIN O	CUS	TOD	YSAMPLI	E ANA	LYS	IS REQUI	ST	F	03-018-096	Page L	of L
Collector PHIL GENT		ny Contact Vと TRENT	Telepho 37	ne No.	586	9			ect Coordin NT, SJ	ator	Price Code	8N		naround
Pro ject Designation 21 6-Z-9 Trench Characterization Borehole - Soil	Sampli Z/6	ng Location, -Z-9/c3	426	//	2'	- <u></u>		SAF F03-			Air Qual	ity 📋		Days
Ice Chest No. GRP-94-006	Field L	ogbook No. -N-3681		co	A//4	1152 E	510	Meth	od of Ship	nent (	5.V.			<u></u> .
Shipped To 222-S Lab Operations	Offsite	Property No.	<u> </u>					Bm	of Lading//	Ur Bill N	10. N/	۹		
POSSIBLE SAMPLE HAZARDS/REMARKS	-										1	<b>\</b>		•
		Preservation	NON				<u> </u>						<del> </del>	
Special Handling and/or Storage	ſ	Type of Container	P	1_			<u> </u>						ļ	<b></b>
	ļ	No. of Container(s)				l	<u> </u>						<u> </u>	<u> </u>
		Volume	202	v										
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SAMPLE ANALYSIS							1	l			ł	ţ	ł	
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Sample No. Matrix * Sa	mple Date	Sample Time												1
B190T8 SOIL 4	715/	54 1413	V			-								
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CHAIN OF POSSESSION  Relinquished By/Remove From Bate/Time 1506 Reco	Sign/Print	Names	ate/Time 4/	dece	SPEC	IAL INSTR	UCTIO	ONS						Matrix *
Relinquished By/Removed From Fate/Time 1500 Reco	Bucha	N RABUSHOW For	R-Cham	es	1300									S=Soil SE=Soliment SO=Solid
Retinquished By/Removed From Date/Time Reco	eived By/Sto:		ate/Time		1		1							SI-Shales W = Water
Relinquished By/Removed From Date/Time Rec.	eived By/Stor	ed In Di	ate/Time		┨									N=Air
Remodulated By/Removed Florid	eived by/5tol				j									DL=Drum Solide
Relinquished By/Removed From Date/Time Reco	eived By/Stor	red In D	ate/Time											T-Times Wi-Wips L-Liquid
Relinquished By/Removed From Date/Time Reco	eived By/Sto	red In D	ate/Time		1								-	V=Vegetation X=Other
Relinquished By/Removed From Date/Time Reco	eived By/Stor	red In D	ate/Time											
LABORATORY Received By SECTION				itle	<del></del> .							1	Date/Time	
FINAL SAMPLE Disposal Method DISPOSITION	<del></del>		-		Dispo	sed By				<del></del>		Date/Time		

FLUOR Hanford Inc.			CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									018-082	Page <u>l</u>	of <u>1</u>
Collector Pope/Pfister/Hughes/Wiberg		Comp Ste	any Contact ve Trent			Project Coor TRENT, SJ	dinator	Price	Code	8N	Data Tur			
Project Designation 216-Z-9 Trench Characteriza	ntion Borehole - Soil		ling Location 5-Z-9/C3426	<u> </u>	SAF No. F03-018				Air Quality 🗌			60 Days		
Ice Chest No.			Field Logbook No. COA HNF-N-3361 1191					Method of Sh Governmen			<del></del>	<del></del>	<u> </u>	
Shipped To 222-S Lab Operations		Offsit N//	e Property No.	·			Bill of Ladin N/A	g/Air Bil	ili No.				·	
POSSIBLE SAMPLE HAZ	ARDS/REMARKS	•	Preservation	Cool 4C	Cool 4C	i r				ļ		·	•	<u> </u>
Special Handling and/or-	Storage		Type of Container	aG	G/P						,			
Opecial transming and/or	V		No. of Container(s)	2 60mL	1 120mL	<del> </del>	<u>                                      </u>		-			<del> </del> -		ļ
			Volume	See item (1) in			<u> </u>					ļ		<u> </u>
	SAMPLE ANALY	/SIS		Special Instructions.	-Special Instructions.									
Sample No.	Matrix *	Sample Date	Sample Time			7-7-7								
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LABORATORY Received SECTION	July den		<u>-</u>	Ti QuyDle	itle								Date/Time	:30
FINAL SAMPLE Disposal DISPOSITION	Method (			e majerer	المهيب	Dispo	osed By					<u> </u>	Date/Time	

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FLUOR Hanford Inc.			CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									F03-018-059 Page 1 of 1				
Collector Pope/Pfister/Hughes									Project Coordinator TRENT, SJ		nator	Price Code 8N D		Data Turnaround		
Project Designation 216-Z-9 Trench Characteriza	tion Borehole - Soil	San	Sampling Location 216-2-9/C3426 - Interval 119'-121.5'						SAF No. F03-018			Air Quality			60 ]	Days
Ice Chest No. 6PP - 0	3-006	Fie	d Logbook No. 4-15-6 INF-N- <del>3361</del> -366-4	OA Method of S 9152ES10 Governmen												
Shipped To Offsite Property No. 222-S Lab Operations N/A									Bill o	of Lading/ A	Air Bill l	ło.				
POSSIBLE SAMPLE HAZA	RDS/REMARKS			1								T				
RADIOACTIVE TIE TO: B17	NN4	•	Preservation	Cool 4C	<u> </u>											
   Special Handling and/or S	Storage		Type of Container	aGs*	_			<u> </u>								
SAMPLERS TO PUT 5 g soil is Bottles are pre-labeled. Write	into each vial with the	encòre sampler. the chain on	No. of Container(s)	5 40mL	<u>↓</u>			<u> </u>							<del></del>	
each vial.			Volume				ļ	_			ļ 					
SAMPLE ANALYSIS				See item (1) in Special Instructions.	,		i i									
Sample No.	Matrix *	Sample Da	ite Sample Time		_	The system	***************************************			ye the en					N	and header of the section of the
B17N64	SOIL	4.21.1	1400	V												
				_ <b> </b>			<u> </u>	<u> </u>								
				<u> </u>	┼		<del>                                     </del>	-		<del> </del>						
				_	┼		-	┼-			<del>[</del> -					<del></del>
CHAIN OF POSSESSION	 ON	Sign/P	rint Names	!	Ь	SPEC	CIAL INST	RUCTI	ONS		<u>.                                    </u>					Matrix *
Relinquished By/Removed From	Date/Time	Received By	Stored In I	Date/Time 15	45	** 222-S Laboratory will provide 40 mL VOA vials that have been pre-preserved with sodium bis  (1) VOA - 8260A - Consplete; VOA - 8260A (Add-On) {Acetonitrile, Hexane, n-Butylbenzene}								sulfate.	S=Soil SE=Sotiment SO=Solid	
Relinquished By/Removed From Date/Time Received By/Stored In					te/Time								,,		SI-Stodge W = Water O=Oil	
Relinquished By/Removed From	Stored In I	A=Air DS=Druse Solids									A-Air					
Relinquished By/Removed From	Date/Time	Received By	ed By/Stored In Date/Time												T=Tissec WI=Wipc L=Liquid	
Relinquished By/Removed From	Received By	ived By/Stored In Date/Time													V=Vegetation X=Other	
Relinquished By/Removed From	Date/Time	Received By	Stored In													
LABORATORY Received I	Зу	<del></del>		Т	tie	1	<del></del>							Date/	Time	·
FINAL SAMPLE Disposal N DISPOSITION	Aethod	<u> </u>					Disp	osed By	<del></del>			e.		Date	Time	

FLUOR Hanford Inc.			CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUI								EST	F0:	of <u>1</u>		
Collector Pope/Pfister/Hughes			Company Contact Telephone No. Steve Trent 373-5869				Project Coordinator TRENT, SJ					Price Code 8N		Data Tur	
Project Designation 216-Z-9 Trench Chara	acterization Borehole - Soil	216	oling Location 6-Z-9/C3426 - Interval 11			SAF No. F03-018					Air Quality 🗌			Days	
Ice Chest No. GPP	1-03-006	Field Hi	Logbook No. 4-19-6 IF-N-2361- 368-1	COA 11915	4 52ES10	<del>i</del>			od of Ship			·			
Shipped To 222-S Lab Operations	222-S Lab Operations N/A								Bill N	of Lading/ /A	Air Bill N	io.		· · · · · · · · · · · · · · · · · · ·	<u>,                                     </u>
POSSIBLE SAMPLE	HAZARDS/REMARKS					- 1							1		
RADIOACTIVE TIE TO	); B17NN4	•	Preservation	Cool 4C									<u> </u>		
Special Handling an	nd/or Storage		Type of Container	P 3		_						<del>- </del> -	<del> </del>	<u>                                     </u>	<b> </b>
	g with the encore sampler. If to WSCF, Sample analysis must		No. of Container(s)	5g		$\dashv$						<del>-  </del>	<u> </u>		
hours or preserve with	methanol.		Volume				··	<u> </u>							
1	SAMPLE ANAI	LYSIS		See item (1) in Special Instructions.	; 										
		<u></u>								The second second				or grant our contraction of	
Sample No.	Matrix *	Sample Date					je transferier svanisk av automobile er vissere			والمراجع والمراجع المراجع والمراجع والم					
B17N68	SOIL	4-21-4	1400	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\				<u> </u>	_				<del> </del>		<del> </del>
		<del> </del>		+				<u> </u>						-	
				1		_		<del></del>	$\neg$ f	····	<del>   </del>	+	+		
CHAIN OF POSS	SESSION  From Date/Time  7/2//		nt Names			SPECI	AL INSTR	RUCTIO	ONS						Matrix *
Relinguished By/Removed E	Ex KISTERIE	Date/Time 4/21/ 15:45	104	(1) VOA - 8260A - Complete; VOA - 8260A (Add-On) (Acetonitrile, Hexane, n-Butylbenzene)							:ne}	S=Soil SE=Sediment SO=Solid			
Relinquished By/Removed F	From Date/Time /54	Received By/Sto	ored In D	Date/Time								-			SI=Studge W = Water O=Oil
Relinquished By/Removed F	Date/Time										.	A=Air DS=Drum Solids DL=Drum Liquids			
Relinquished By/Removed F	From Date/Time	Received By/Sto	ored In D	Date/Time											T=Tissue Wi=Wipe L=Liquid MaX(acception
Relinquished By/Removed F	From Date/Time	Received By/Sto	ored In D	Date/Time		1									V=Vegetation X=Other
Relinquished By/Removed F	From Date/Time	Received By/Ste	ored In D	Date/Time	$\Box$										
LABORATORY Res	eceived By	<del></del>		Title	•									Date/Time	
<u> </u>	isposal Method						Dispo	sed By					1	Date/Time	

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